

## FOBAS Sample Analysis Report

Client: ISHIMA PTE LTD

|  |                             |
|--|-----------------------------|
| <b>Our Ref:</b> 17-009518-0-UKHO - PDZ | <b>Report Status:</b> Green |
| <b>Vessel:</b> HIGH PRESENCE           | <b>IMO:</b> 9325324         |

|                              |                    |
|------------------------------|--------------------|
| <b>Sample Dispatch Date:</b> | 2017-03-30         |
| <b>Lab Receipt Date:</b>     | 2017-04-01         |
| <b>Courier Used:</b>         | DHL : 2607540773   |
| <b>Dispatched From:</b>      | LAS PALMAS - SPAIN |

|                   |               |
|-------------------|---------------|
| <b>Sample</b>     | 1             |
| Port              | LAS PALMAS    |
| Sampling Date     | 2017-03-29    |
| Supplier          | ORYX ENERGIES |
| Barge/Inst        | SPABUNKER 22  |
| Sample Point Type | MANIFOLD      |
| Sampling Method   | DRIP          |

|                               |                   |
|-------------------------------|-------------------|
| <b>Advised Bunker Details</b> |                   |
| Viscosity cSt                 | 4.15              |
| Density @ 15°C kg/l           | 0.8706            |
| Sulphur                       | 0.09              |
| Quantity MT                   | 209.735           |
| Seal Number Lab               | 1651415           |
| Tag Seal Numbers Lab          | 1756689           |
| Seal Number Vessel            | 1756690 / 1651427 |
| Seal Number Supplier          | 1756669 / 1651429 |
| Seal Number MARPOL            | 1756670 / 1756670 |

The full job report is available online at: [17-009518-0-UKHO](#)

|                       |       | Required   | Tested           |
|-----------------------|-------|------------|------------------|
| Sample                |       | 1          | Green            |
| ISO-F Grade( 2005 )   |       | DMALS      | DMA              |
| K Viscosity at 40oC   | cSt   | 6.0 Max    | 4.180            |
| Density @ 15°C        | kg/l  | 0.8900 Max | 0.8705           |
| Water Content         | % v/v | -          | < 0.02           |
| Ash Content at 550oC  | % m/m | 0.01 Max   | < 0.010          |
| Net Specific Energy   | MJ/kg |            | 42.49            |
| Gross Specific Energy | MJ/kg |            | 45.22            |
| Colour                | n/a   |            | Yellow           |
| Appearance            |       |            | Clear and Bright |
| Sulphur Content       | % m/m | 0.10 Max   | 0.091            |
| Pour Point            | °C    | 0 Max      | < -9             |
| CFPP                  | °C    |            | 4                |
| Flash Point           | °C    | 60 Min     | > 70.0           |
| MCR 10%               | % m/m | 0.30 Max   | 0.04             |
| Cetane Index          | Index | 40 Min     | 50               |

## Comments: Sample 1

### Green

1. The fuel, to the extent tested, corresponds to an ISO-F-DMA grade.
2. Results indicate a satisfactory quality gas oil grade.
3. The fuel as tested complies with the Revised MARPOL Annex VI regulation 14.4.3

Note: The accuracy of the results obtained are dependent on the sample tested being truly representative of the fuel as loaded. To draw representative samples please refer to the FOBAS Sampling Procedures Manual. For further information on the MARPOL Annex VI Reg. 14 & 18 requirements and its on-going developments, please contact your local Lloyd's Register FOBAS office or contact us directly on [fobas@lr.org](mailto:fobas@lr.org)

This report is also available at <https://www.lrgmt.com>

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